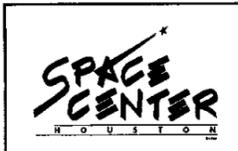


Rendezvous reunion

Gemini Program employees get together to celebrate the 30th anniversary of Gemini 6, 7. Photos on Page 3.



Teacher assembly

Teachers participate in the International Space Station Educators Conference at Space Center Houston. Photo on Page 4.

Space News Roundup

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February 16, 1996

No. 6

New retirement program offers more options

Careers Plus+ provides alternatives for early, optional retirement

Employees eligible for retirement now have more options to consider when planning their future. "Careers Plus+," JSC's new retirement transition program, provides alternatives to help potential retirees make the transition.

Available only to JSC employees eligible for early or optional retirement, the Careers Plus+ Program is made up of three options: Trial Retirement, Phased Retirement, and Partners in Education. JSC and the employee both sign an agreement which sets forth

the specifics of individual arrangements. These options expire June 28, with the exception of Partners in Education, which expires Aug. 30.

In Trial Retirement, employees voluntarily retire from civil service and "try out" retirement for 12 to 18 months. After that period, if employees decide retirement isn't for them, JSC will hire them back, either full-time or part-time, as reemployed annuitants at their same grade and step. A reemployed annuitant is a civil service retiree who

returns to work as a civil servant.

Under the Phased Retirement option, employees voluntarily retire from civil service and are hired back, as early as the next business day, as reemployed annuitants in positions that make use of their NASA experience. Employees are limited to 1,040 hours a year for up to two years, working either part-time or full-time until the annual limit is reached. Employees either propose work arrangements or respond to announcements identifying needs. This option allows

employees to scale back work hours for up to two years to help prepare for retirement.

Partners in Education helps employees transition to teaching positions, generally in the math, science and engineering fields at the junior college or university level. Employees voluntarily retire and are hired back as reemployed annuitants, working up to 1,040 hours per year for up to two years. These hours are spent teaching at a suitable educational institution and supporting JSC's

Please see CAREERS, Page 4

STS-75 crew plans Monday trip to Florida

Work is going smoothly to prepare *Columbia* for its Thursday launch and the crew said Wednesday it is ready to begin unreeing the line on the Italian-built Tethered Satellite System.

The reflight of TSS, an experiment first flown on STS-46 in the summer of 1992, will be a scientific adventure aimed at understanding the possibilities for putting the "enabling" tether technology to work in space in ways that could help generate power for the International Space Station or take measurements of Earth's environment.

The initial flight of the system yielded extensive data about the behavior of the tether system close to the shuttle, but difficulties with the deployment mechanism did not allow the tether to be extended completely. The plan for TSS-1R includes deployment out to a full length of 12 1/2 miles.

"We have a really fine crew," said Lead Flight Director Chuck Shaw, who also lead the STS-46 flight control team. "We are really pleased with the quality of the crew and the experience of the previous Tethered Satellite System flight. We've got a lot of challenges. It's not going to be a real easy, laid-back operation. I don't think there's anybody here that shies away from that."

The second shuttle mission of the year and the 75th in the history of the program is designed to investigate new sources of spacecraft

Please see PAYLOADS, Page 4



NASA photo

The STS-75 flight crew stand in the white room just outside *Columbia* at Launch Pad 39B during a break of the Terminal Countdown Demonstration Test at Kennedy Space Center. From top to bottom left to right are Pilot Scott Horowitz, Mission Specialist Claude Nicollier of the European Space Agency, Commander Andy Allen, Mission Specialist Maurizio Cheli of the European Space Agency, Payload Specialist Umberto Guidoni of the Italian Space Agency, Payload Commander Franklin Chang-Diaz and Mission Specialist Jeff Hoffman.

Projects move to shuttle program

More changes position JSC for lead role

JSC Director George Abbey introduced several organizational changes Friday intended to further on-going efforts to streamline and promote efficiency and position JSC to lead the agency's space station and space shuttle programs.

Changes include abolishing the JSC Projects Office and moving most of its functions to the Space Shuttle Program Office. The Orbiter Project Office will move intact to the shuttle program and report to Manager Tommy Holloway. The Russian Project Office will move intact to the Phase 1 Program Office and report to Director Frank Culbertson, and the EVA and Crew Equipment Projects Office will be separated.

The EVA Integration and Operations Office and the EVA Management Office will form the nucleus of the new EVA Project Office. The crew and equipment and other functions of the EVA and Crew Equipment and Projects Office will move to the shuttle program. A plan to transition the remaining JSC Projects Office personnel to other organizations is in work.

Also, Jane Stearns has been assigned acting director of business management. Stearns will continue as director of information services, and has been tasked with developing a plan to further streamline and consolidate the work in both organizations in the coming months.

The moves are in response to last week's announcements by NASA Administrator Daniel S. Goldin that JSC is now lead center for the Space Shuttle and International Space Station Programs, as well as for Space Operations and EVA operations. All are pending NASA Headquarters approval.

"Other changes may be made as the need arises," Abbey wrote in the announcement. "All of the changes take best advantage of the talent and facilities we have at this center."

"These changes represent a significant shift in responsibility for JSC. As we assume these responsibilities with an agencywide perspective, I am confident our team has what it takes to meet the challenges that lie ahead."

Today's rodeo events

A variety of "go western" events will take place today around the center.

- Child care rodeo events: Face Artist Sean Collins will paint children's faces from 9:30-10:30 a.m.

- Leslie Maxwell will bring small animals for children to handle from 10:30-11:30 a.m. at the JSC Child Care Center.

- Bldg. 3 Cafeteria rodeo events: Andrea Bryant and her horse will demonstrate "Cutting Horse" techniques at 11, 11:40 a.m. and 12:30 p.m.

- Sherry Dodson will discuss rodeo scholarships at 11:20 a.m. and 12:45 p.m.

- Dane Dunigan demonstrates rodeo saddle and roping techniques from 11 a.m.-1 p.m.

- Country and Western Line Dancing Instruction from 11 a.m.-1 p.m.
- Best Western Outfit contest from noon-12:30 p.m.

- Trail Ride: Trail ride begins at 2:30 p.m. at the Gilruth Center trav-

els around the center and returns to the Gilruth Center.

- Rodeo Lift-off party: A Rodeo Lift-off party is set for 4:30-9 p.m. at the Gilruth Center's old pavilion. The Original River Road Boys will provide Country and Western music. Tickets cost \$5 and include beer, wine, soft drinks, hot dogs and chicken wings. Gates open at 4:30 p.m. with the band starting at 5 p.m.

- Cafeteria rodeo special: Barbecue dinner: includes beef, sausage, beans, coleslaw, potato salad, Texas toast, onion slice and a drink for \$5.25. Barbecue beef on a bun with potato salad, ranch beans and onion slice for \$3.25.

Events continue next Friday in the Bldg. 3 Cafeteria with Vaquero Mary Jane Dorman and Richard Hergert discussing several rodeo events from 11 a.m.-12:30 p.m. and Stan Horton will give a roping demonstration from 11 a.m.-1 p.m.



JSC photo by Benny Benevides

BLACK HISTORY—JSC Director George Abbey, right, talks with keynote speaker Herbert Carter, a retired Air Force lieutenant colonel, during the Black History Month observance at the Gilruth Center Ballroom. Carter is a member of the Tuskegee Airmen, the original cadre of the 99th Fighter Squadron in World War II. Carter flew 77 missions. The Black History month observance was hosted by the Equal Opportunity Programs Office and the 1996 Black History Committee.

JSC to picnic at Astroworld

The Employee Activities Association has set the JSC annual family picnic for next month at Astroworld.

The picnic is scheduled from 11 a.m.-8 p.m. March 31 at the A&W Ranch inside Astroworld.

The A&W Ranch will be designated for JSC and contractor employees only and will include all-you-can-eat barbecue, face painters and other coordinated activities.

Tickets will cost \$12 per person for everyone over the age of 3. The tickets include the barbecue dinner, all Astroworld rides and attractions, and a special "free" ticket to Holiday in the Park.

Tickets go on sale at the Exchange Store on March 8. The \$12 price is limited to the first 3,800 tickets sold. After that, the price will be \$20. Astroworld season ticket holders may purchase a ticket for \$6 and receive all the benefits of the regular JSC ticket.

For more information call the Exchange Store at x35350.

JSC

Ticket Window

The following discount tickets are available for purchase in the Bldg. 11 Exchange Store from 10 a.m.-2 p.m. Monday-Thursday and 9 a.m.-3 p.m. Friday. For more information, call x35350 or x30990.

Basketball: Houston Rockets vs Miami Heat March 16 at the Summit. Tickets cost \$16.50 and \$22.50.

JSC Rodeo Lift-off Party: 5 p.m. Feb. 16 at the Gilruth Center featuring the Original River Road Boys. Tickets cost \$5.

Space Center Houston: Discount tickets, adult, \$8.75; child (3-11), \$7.10.

Movie discounts: General Cinema, \$4.75; AMC Theater, \$4; Sony Loew's Theater, \$4.75.

Stamps: Book of 20, \$6.40.

Gold C books: \$10.

Entertainment 96 books: \$30.

JSC history: *Suddenly, Tomorrow Came: A History of the Johnson Space Center.* Cost is \$11.

Metro tickets: Passes, books and single tickets available.

JSC

Gilruth Center News

Sign up policy: All classes and athletic activities are first come, first served. Sign up in person at the Gilruth Center and show a NASA badge or yellow EAA dependent badge. Classes tend to fill up two weeks in advance. Payment must be made in full, in exact change or by check, at the time of registration. No registration will be taken by telephone. For more information, call x30304.

EAA badges: Dependents and spouses may apply for photo identification badges from 7 a.m.-9 p.m. Monday-Friday; and 8 a.m.-4 p.m. Saturdays. Dependents must be between 16 and 23 years old.

Defensive driving: One day course is offered March 9. Cost is \$25.

Softball: Registration for spring season will be from Feb. 26-March 1.

Stamp club: Meets at 7 p.m. every 2nd and 4th Monday in Rm. 216.

Aerobics: Classes meet at 5:30 p.m. Monday, Tuesday, Thursday and Friday and 9:30-11 a.m. Saturdays. For information call Jill Hill at 480-0509.

Women's self defense: Martial Arts training for women only from 5-6 p.m. Tuesdays and Wednesdays. Cost is \$25 a month.

Weight safety: Required courses for employees wishing to use the weight room are offered from 8-9:30 p.m. Feb. 22 and March 14. Pre-registration is required. Cost is \$5.

Exercise: Low-impact class meets from 5:15-6:15 p.m. Mondays and Wednesdays.

Aikido: Martial arts class meets from 5-7 p.m. Wednesday. Cost is \$25 per month. New classes begin the first of each month.

Ballroom dancing: Cost is \$60 per couple. For additional information call the Gilruth Center at x33345.

Country and Western dancing: Beginner class meets 7-8:30 p.m. Monday. Advance class meets 8:30-10 p.m. Monday. Cost is \$20 per couple.

Fitness program: Health Related Fitness Program includes a medical examination screening and a 12-week individually prescribed exercise program. For more information, call Larry Wier at x30301.

JSC

JSC

Dates & Data

Today

Cafeteria menu: Special: tuna noodle casserole. Rodeo special: Barbecue dinner: includes beef, sausage, beans, coleslaw, potato salad, Texas toast, onion slice and a drink for \$5.25. Barbecue beef on a bun with potato salad, ranch beans and onion slice for \$3.25. Total Health: baked potato. Entrees: steamed salmon steak, baked chicken, fried cod fish, ham steak. Soup: seafood gumbo. Vegetables: French cut green beans, cauliflower with cheese, peas, black-eyed peas.

Monday

Cafeteria menu: Special: breaded outlet. Rodeo special: Barbecue beef on a bun with potato salad, ranch beans and onion slice for \$3.25. Total Health: crispy baked chicken. Entrees: stir fry pork and rice, baked chicken, smoked sausage with German potato salad, French dip sandwich. Soup: cream of broccoli. Vegetables: okra and tomatoes, peas, navy beans, baby carrots.

Tuesday

Blood drive: Krug Life Sciences will host a blood drive from 8-11:30 a.m. and 1-3 p.m. Feb. 20 at 1290 Hercules. For more information call Jackie Reeves at x41437.

Cafeteria menu: Special: fried chicken. Rodeo special: Barbecue beef on a bun with potato salad, ranch beans and onion slice for \$3.25. Total Health: vegetable lasagna Entrees: Salisbury steak, steamed pollock, vegetable lasagna, French dip sandwich. Soup: split pea and ham. Vegetables: mixed vegetables, French cut green beans, pinto beans, vegetable sticks.

Wednesday

Toastmasters meet: The Space and Toastmasters Club will meet at 7 a.m. Feb. 21 at the House of Prayer

Lutheran Church. For more information call Jeannette Kirinich x45752.

Astronomy seminar: The JSC Astronomy Seminar will meet at noon Feb. 21 in Bldg. 31, Rm. 129. An open discussion meeting is planned. For more information, call Al Jackson at 333-7679.

Cycle club: The Space City Cycle Club will meet at 5 p.m. Feb. 21 at the Grumman Bldg. at Ellington Field. For more information call Mike Prendergast at x45164.

INCOSE meets: The Texas Gulf Coast Chapter of International Council on Systems Engineering will meet at 5:30 p.m. Feb. 21 at the Gilruth Center. Frank Holt, professor of history at the University of Houston will discuss "The Logistics of the Campaigns of Alexander the Great." Cost is \$6 for members and \$7.50 for non-members. Reservations are due by Feb. 20. For more information call Jonette Stecklein at 244-7146 or Karla Bowling at 335-6500.

Scuba club meets: The Lunarfinns will meet at 7:30 p.m. Feb. 21 at Redfish Restaurant under the Kemah/Seabrook Bridge, Seabrook Side. For more information call Fred Toole at x33201.

Cafeteria menu: Special: stuffed bell pepper. Rodeo special: Barbecue dinner: includes beef, sausage, beans, coleslaw, potato salad, Texas toast, onion slice and a drink for \$5.25. Barbecue beef on a bun with potato salad, ranch beans and onion slice for \$3.25. Total Health: baked potato. Entrees: stir fry chicken & rice, wieners & beans, fried fish, western special, beef, chicken sausage, Reuben sandwich. Soup: seafood gumbo. Vegetables: buttered rice, Italian green beans, corn O'Brien, peas and carrots.

Thursday

IEEE meets: The Galveston Bay

Section of the Institute of Electrical and Electronics Engineers will hold their monthly luncheon at 11:30 a.m. Feb. 22 in the Gilruth Center Ballroom. The featured speaker, Michael Duke, will discuss "The Administrator's Challenge: Humans to Mars by 2018." For information on call Barbara Nepveux at 483-8812.

NMA meets: The JSC Chapter of the National Management Association will meet at 5 p.m. Feb. 22 at the Gilruth Center. Featured will be the annual American Enterprise Speech Contest for high school students. Spotlight speaker is Richard Hergert, member of the Houston Livestock Show and Rodeo Board. Reservations must be made no later than Feb. 16. For more information call Kathleen Kaminski at x38706.

Cafeteria menu: Special: barbecue smoked link. Rodeo special: Barbecue beef on a bun with potato salad, ranch beans and onion slice for \$3.25. Total Health: roasted turkey breast. Entrees: turkey and dressing, beef stroganoff, steamed pollock, French dip sandwich. Soup: tomato Florentine. Vegetables: Spanish rice, lima beans, buttered squash, oriental vegetables.

Friday

Rodeo events: Vaquero Mary Jane Dorman and Richard Hergert will discuss rodeo events from 11 a.m.-12:30 p.m. and Stan Horton will give a roping demonstration from 11 a.m.-1 p.m. Feb. 23 in Bldg. .

PMA luncheon: The Houston Chapter of the Performance Management Association will conduct its fourth in a series of luncheon meetings on the implementation of Earned Value Management Systems at JSC at 11:15 a.m. Feb. 23 at the Ramada Inn on NASA Road 1. Reservations are due Feb. 20. For more information, call Susan Widmer at x34299.

Swap Shop

Property

Sale: Bayridge subdivision, cul-de-sac street, new roof, \$55k obo. James, 286-1934.

Sale: Clear Lake City, Oakbrook, 3-2-2, quiet cul-de-sac, large lot, trees, ex cond, \$87k. 488-4069.

Sale: Webster condo, 2-2-2CP, new A/C, solar screens, kitchen/bath upgrade, WB/FPL, ceiling fans, W/D conn, \$38.5k. 280-0285.

Sale: 130 cleared acres, 5 pastures, 15 mi East of Tyler, house, hay & horse barns, all amenities. 488-5058.

Rent: Webster, 4-3, 2250 sq ft, commercial or residential, avail 3/1. 554-5219.

Sale: Waterfront lot, .5 ac on Dickinson Bayou, recent bulkhead, wooded, \$75k obo. x31370 or 334-7412.

Sale: BayGlenn, 4-2.5-2A + study or opt 5th BDR, 2100 sq ft, huge LR/MSTR, covered patio, very nice, \$115k. 486-6726.

Lease: MeadowGreen, 3-2.5-2, 2 story on cul-de-sac, formal dining room, fans, good cond, \$875 mo + deposit. 486-8551.

Sale: Webster, Green Acres, 3-2-2 w/open living area, 900 sq ft garage, .4 acre lot, fence, possible owner finance, \$99k. 482-1685.

Sale: Boat slip on Clear Lake w/roof & motorized boat hoist for power boats, \$7.5k. 474-4922.

Rent: Beach house, Crystal Beach, Galveston County, furnished, sleeps 10, cable TV, FPL, wkend/weekly. 486-1888.

Rent: Beach front condo, Cancun, Mexico, avail year round, sleeps 4, kitchenette, full bath, daily maid service, \$300 w/ky. Katie, x33185.

Cars & Trucks

'86 Ford Taurus LX, ex cond, 1 owner, many options, \$2.8k. 482-1076.

'94 Geo Metro, 4 dr hatchback, blue, ex cond, A/C, AM/FM/cass, 25k mi, \$8k. Sandra, x37682.

'90 LeBaron Prem convertible, ex cond, low mi, new tires, CD, leather, loaded, \$10k. 488-6526.

'85 Chevrolet Caprice, 4 dr sedan, white, maroon interior, fully equipped, \$1.6k. 996-0684.

'83 Pontiac Grand Prix, strong, dependable, V8-305, good stereo, tires, 112k mi, \$1.2k. 538-3320.

'92 Mazda Miata, red/blk, P/S, A/C, 5 spd, cruise, AM/FM/cass, P/W, ext warranty, 35k mi, ex cond, \$14k obo. James, x31064 or 334-1766.

'84 Buick LeSabre Limited, 2 dr, 57k mi, good cond, A/C, P/S & P/B, AM/FM, V8, \$2.2k. 474-3517.

'89 Ford F150, loaded, A/C, all power, cruise, AM/FM/cass, capt chairs, dual tanks, towing pkg, bed liner, 49k mi, \$8.5k. Bob, x39376 or 332-4756.

'86 Nissan Sentra, 2 dr, needs engine work, \$500 obo. x38826.

'84 Mazda RX-7 GSL-SE, black/red, 5 spd, sunroof, AM/FM/cass, good cond, \$2,950. 582-0415.

'87 Olds Calais, 122k mi, ex cond, 4 cyl, P/W, cruise, front wheel drive, \$2k. Steven, x36314.

'92 Camry, white w/blue interior, AT, cruise, stereo, alarm, sunroof, 61k mi, \$12,750. 498-7343.

'89 Dodge Ram Charger, 318 V8, 2WD, loaded, very clean, runs great, \$5k. Mike, x33838 or 998-7780.

'87 Camero IROC Z, new paint, very nice, \$4.5k. 339-2182.

'93 Nissan Truck 4x4, 39k mi, cherry red, garaged, super clean, \$10.6 obo. Mohsin/Ahsan, 272-6496.

'87 Nissan Maxima, auto, sunroof, A/C, fully loaded, 93k mi, \$3.8k obo. Mohsin/Ahsan, 272-6496.

'91 Suzuki Intruder, red, extra clean, 18.4k mi, \$3.5k obo. Marvin, x36174 or 592-6328.

'89 Ford Escort wagon, good work/family car, runs great, \$2k. James, 286-1934.

'81 Chevette, 1 owner, 4 dr, 4 spd, lots of new rebuilt parts, running cond, \$500 obo. 946-7028.

'94 Chevy C1500 Silverado pickup, SWB extended cab, loaded, \$16k. 997-2280.

'89 Honda Civic, DX 3 dr, \$3.5k. Dan, 554-4004.

'90 Pontiac Sunbird convertible, 4 cyl, white w/black top, power, \$6.5k. Dave, x36027.

'94 Toyota Camry LE, ex cond, sunroof, hunter green, CD player w/up-graded speakers, \$15.9k. Amy, 932-9545 or Barbara, 337-1494.

'92 Chevy Lumina Eruo 3.4 sedan, auto, black w/gray interior, loaded, Delco/Bose AM/FM/cass, alarm, ex cond, \$10.1k. Ron, x33196.

'80 Porsche 924, dark brown/blk leather interior, 5 spd, new tires, great cond, \$2.5k obo. John, x30052 or 486-7428.

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Boats & Planes

Sailboard, 9'7" Roberts custom course slalom, \$750 firm. David, 486-8487.

Glastron, 17' walk thru windshield, 90 Mercury '85 model, rebuilt motor, \$3.5 obo. 283-6917 or 431-0598.

Procraft bass boat, 15', 85 hp Evinrude, stainless steel prop, 12/24 trolling motor, depth finder, 2 live wells, garage kept, very clean, \$2.5k. David, 478-2974.

Child's Race Car bed, mattress, hutch, chest, \$200. x32264 or 488-5962.

Early America couch, loveseat, chair & solid maple coffee table, \$200 obo. 337-4182.

Blue & white strip camel back sofa, ex cond, \$300. Kelly, 652-2100 x248 or 992-5183.

Vanity w/chair, gold tone, still in box, \$80. rose, x47757 or 334-7814.

Black vinyl recliner, ex cond, \$75 obo; coffee table, 5', bottom shelf, \$30 obo; end table, enclosed storage, \$20 obo. x38151 or 532-1100.

Washer & dryer, \$50 ea; refrigerator, \$125; couch & chair, \$50; entertainment center, \$40; 3 doors, \$5-\$50. x35092 or 944-2391.

Contemporary black metal futon frame, qn size futon & Aztec futon cover, ex cond, \$280. 286-0592.

King size four poster waterbed, 5 piece black dinette w/glass top, ex cond. x31346 or 470-7099.

Colonial formal dining table w/6 chairs, maple, 2 leaves, \$650; hutch/dresser, \$325; 4 TV trays, wood, \$35; lg square coffee table, \$30 ea; end tables, \$30; 2 - 8" horizontal blinds, \$85; 10 gal fish tanks, \$10; stained glass lamp, \$130. 282-3570 or 474-3820.

Sectional sofa/loveseat w/dual recliners, \$300; dinette, \$35. 280-0742.

Queen sleeper sofa, \$150; recliner, \$65; answering machine, \$20; Sony cordless phone, \$20. Mark, x30918.

Designer 9 x 6 wool rug from Denmark, wheat/chocolate/terra cotta & moss green, \$50. x31370 or 334-7412.Hu

Wanted

Want Personnel to join Vanpool departing Meyer-

\$695; Pentium 75, 100, 133 complete system, warranty, SW, \$999/1099/1399. Don, 333-1751.

Country Music CDs, \$5 ea; Sony GVS-50 hi-fi video Walkman 8mm VCR w/built-in tuner and lcd viewing screen. \$600. Bobby, 244-2444 or 488-4382.

Mac LC 7.0 w/color monitor, Stylewriter, lots of software, ex cond, \$850. Kristi, x32446.

Motorola cell phone in black leather pouch, \$50. 471-9399.

Amiga 1000 computer, Epson MX-80 printer, modem, software. David, 282-5338 or 488-8754.

Want maternity clothes, size 4. 996-0152.

Want roommate, non-smoker, to share 4-2, Friendswood, cable, W/D, microwave, VCR, household privileges, \$250 mo bills pd. Michael, x3169 or 482-8496.

Want non-smoking roommate to share 3 BDR townhome in Clear Lake area, \$350 mo w/bills pd. John, x30543 or 286-7384.

Want fixer upper house, from \$10.k - \$50.k. 992-5080.

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Want washer & gas dryer, bunkbed set. Hope, 332-9094.

Want Canon A-1 35mm camera, ex cond, need macro lenses, ring light, accessories for A-1. Brett, x34565 or 333-6415.

Want old fishing lures from the '50's & earlier. Tim, x38843 or 409-925-0111.

Want ride from El Dorado & El Camino Real to JSC for visually impaired individual, arrive 6:30 am leaves 2 pm, Time flexible. Bill, x47104 or 286-9747.

Want 2 tickets for Alan Jackson, Wednesday, Feb 28 at the Rodeo. x32264 or 488-5962.

Want Champion Juicer, 474-4922.

Want to buy Pop-up trailer, must have A/C & queen or king bed. 286-0520.

Want Super Nintendo video game w/controllers & game cartridges. x31647 or 488-2616.

Want Bubble jet printer for printer for PC clone, good working cond. x32948 or 482-6272.

Want glass carboys (water bottles) 5-7 gallons; want large Igloo style water cooler. Jeff, x38424.

Want 2 tickets for the Hank Williams rodeo show. Karen, x34100.

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land Park & Ride lot at 7:05 am for JSC, consists of on-site personnel 8 am/4:30 pm shift. Pipkins, x35346.

Want personnel to join VPSI vanpool departing Sugarland, West Wood for JSC & offsite locations. Alice, x35

Rendezvous Reunion

Gemini 6, 7 alumni come together to celebrate 30 years of space science

By Karen Schmidt

On Dec. 4, 1965, Gemini 7 became the first spacecraft to launch with a primary objective of meeting another spacecraft in orbit. Thirty years later, many who worked that first rendezvous mission came together to relive the eventful moment in space history.

Reunion participants agreed that without the experimentation and innovative solutions of the Gemini Program, many of the American space program's most memorable feats—from landing humans on the Moon to servicing the Hubble Space Telescope to docking shuttles with the Mir Space Station—would not have been possible.

"When you talk about Gemini, it certainly brings back all kinds of memories," said former JSC Director and Gemini Flight Director Chris Kraft. "It makes me remember the great things we accomplished together."

Kraft, along with more than 100 other Gemini veterans, remembered the days of the Manned Spacecraft Center earlier this month at a reunion at the Gilruth Center.

"Gemini holds a very fond place in my heart," Kraft said. "It was the last time I was an active flight director. It was a job I never wanted to leave. But younger and brighter men came along. It is always a marvelous time for me to come back and be amongst you. It brings back wonderful thoughts and memories of the times we had together. We were very fortunate people to have lived in the times that we did. Flying Mercury, Gemini and Apollo was quite a challenge to all of us and it was a marvelous feat. But the most wonderful part about it was the associations we had with the people."

Kraft recalled how difficult it was for the Gemini 7 astronauts—Commander Frank Borman and Pilot Jim Lovell. One of the major objectives of Gemini 7 beside the rendezvous was to test space suits and an unpressurized spacecraft for long duration flights to the Moon. Post-flight briefings revealed it was difficult for the astronauts to live 14 days in space suits in the small Gemini craft.

"I remember Lovell saying it was like spending 14 days in a men's room," Kraft said.

What scientists did discover was that astronauts could not live in pressurized suits during long-duration missions, but they could live in space without the suits, only needing them during launch and reentry.

Even with the difficulties, the first rendezvous took place five hours after Gemini 6 was

launched on Dec. 15, 1965. Commander Wally Schirra and Pilot Tom Stafford maneuvered the Gemini 6 craft to within 120 feet of the Gemini 7 vehicle. Maneuvers continued for three and a half orbits when Gemini 6 performed a separation maneuver to distance the two space vehicles to about 30 miles from one another. Gemini 6 prepared for reentry while Gemini 7 began to set up to evaluate reentry guidance capabilities. While over in within minutes, the Gemini rendezvous provided the ground work for another rendezvous 30 years later between a space shuttle and a space station.

Former Astronaut Buzz Aldrin, who worked to define orbits to accomplish the rendezvous during Gemini, reflected on the variety of individuals that worked the Gemini Program.

"It was such an enjoyable time working with different people that were so much a part of those early definition days," Aldrin said. The second human to set foot on the Moon now brings his work into the future.

"Recently I've been working on things a little different than that," Aldrin said. Instead of a Delta-h (difference in height) of 10-15 miles, it's about 40 million miles. I'm using relative motion to do some circulating orbits between Earth and Mars."

Astronaut John Young reflected on how the Gemini program advanced the space program into Moon landings but could not have been accomplished with team work.

"Ten manned missions in 16 months, boy-oh-boy, it was fantastic," Young said. "I'm sure everyone can remember that we didn't have the foggiest notion of what we were doing, but we did it anyway and we did it fast. Without that experience we would still be trying to get to the moon. The Gemini program was great."

"It proved that we could take nothing and do something with it. It was a tremendous accomplishment throughout and everybody did a heck of a lot of good work," Young added.

Gemini proved to be a valuable stepping stone to the Moon by defining reentry and landing techniques, providing flight controllers and engineers with data on how to manage long duration missions, providing astronauts with microgravity, rendezvous and extravehicular experience and providing scientists with data on the effects of weightlessness to the human body.

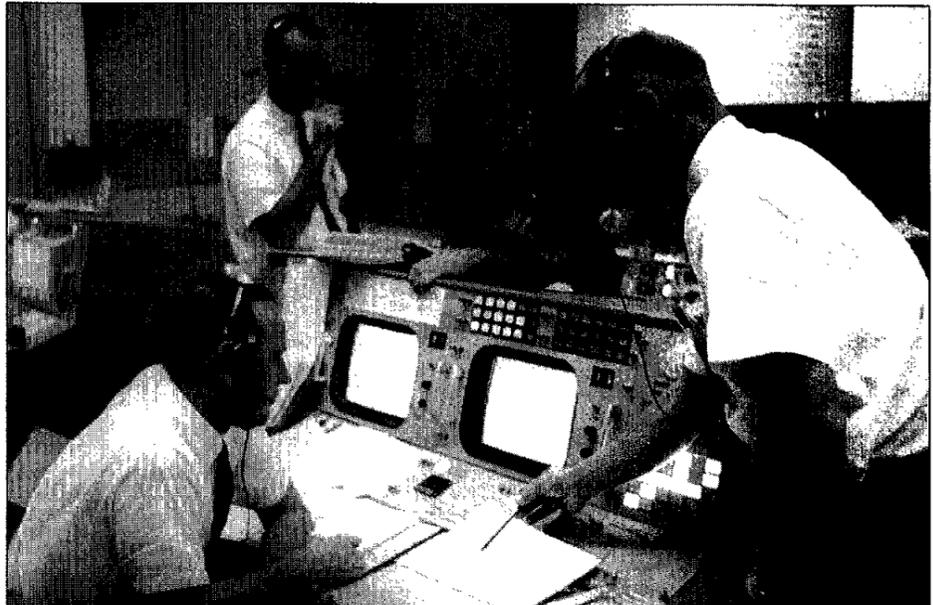
"It was time we recognized the valuable work that was done on the Gemini Program," Legler said. □



JSC Photos by Andrew Patnesky, Karen Schmidt
 Top to bottom, left to right. 1) The Gemini 7 spacecraft is seen from the hatch window of the Gemini 6 spacecraft during rendezvous and station keeping maneuvers at an altitude of approximately 160 miles on Dec. 15, 1965. 2) Former JSC Director Chris Kraft, left, talks with a reunion attendee. 3) Former Astronaut Buzz Aldrin, left, discusses reunion activities with coordinator Bob Legler of Rockwell. 4) Working together during the Gemini program in Mission Control from left are Flight Director Chris Kraft, Astronauts James McDivitt, Charlie Bassett and Buzz Aldrin.

Space task group member Dunseith dies

Retired Assistant to the JSC Director of Space Operations Lynwood C. Dunseith died last week. Dunseith joined NASA in 1957 at Lewis Research Center, then moved to Langley Research Center to develop real-time mission support computer programs for Project Mercury as part of the Space Task Group. He moved to Houston in 1962 as part of the STG, which formed the nucleus of the Manned Spacecraft Center, now JSC. Dunseith worked on mission planning and analysis and development and operation of the Mission Control Center's computer complex. He became chief of the Flight Support Division in 1967, assistant director for computation and flight support in 1970, deputy director of the Data Systems and Analysis Directorate in 1974, and director of that office in 1979.



Vaughan to receive national award

Chet Vaughan, chief engineer of the International Space Station Program, will receive the National Space Club 1996 Astronautics Engineer Award.

Vaughan will receive the award at the Robert H. Goddard Memorial Dinner to be held March 22 in Washington, D.C.

Vaughan was cited for his contributions to the design and analysis of attitude control propulsion systems from Mercury to shuttle. His extraordinary leadership, technical insight, aggressive management and creative solutions have influenced center and agency activities.

Over his 39-year career with NASA, Vaughan has repeatedly been selected to serve on special

assignments including, Space Station Redesign Team, Shuttle Processing Contract Reassessment Board, Magellan Pad Fire Investigation Team and rotational assignments as deputy director of Marshall Space Flight Center and chief engineer for the Office of Space Flight at NASA Headquarters.

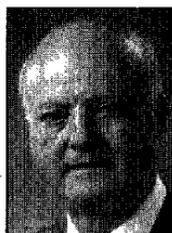
Three get posts in Engineering

Leonard Nicholson, director of the Engineering Directorate recently named James Jaax his deputy director, Frank Buzzard his chief engineer and William Schneider his assistant director.

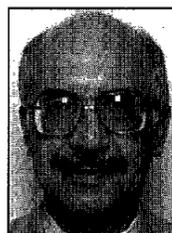
Jaax had taken on the role of act-

ing deputy director. He will be responsible for providing engineering, development and test support to the space shuttle and space station programs. He also will provide long-range technical planning to ensure that progress for these programs reflects current experiences.

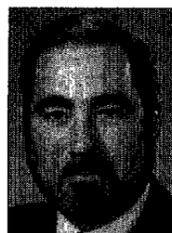
Pending NASA Headquarters approval, Buzzard will take the responsibility of chief engineer for the International Space Station Program. Buzzard has served for two and a half years as the space shuttle chief engineer. In this capacity, he will oversee an inde-



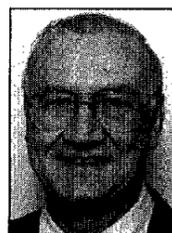
Vaughan



Jaax



Buzzard



Schneider

pendent review of all technical activities for station, ensuring that the designs are sufficient to satisfy station requirements and that proper testing and analysis are performed.

Buzzard is replacing Vaughan, who is retiring this month.

Schneider has been assigned

the job of assistant director for engineering. He will be responsible for assisting the engineering director in managing and directing special technical engineering activities at JSC.

He also will serve as a liaison between engineering and shuttle, space station, Headquarters or JSC organizations on projects, and is a technical expert for problem resolution.

Fellowship accepting applications

Employees wishing to take advantage of educational opportunities offered by the JSC Fellowship Program have until March 29 to apply for the program.

Under the JSC Fellowship, the center will sponsor a select number of individuals to attend graduate school on a full-time basis for one year.

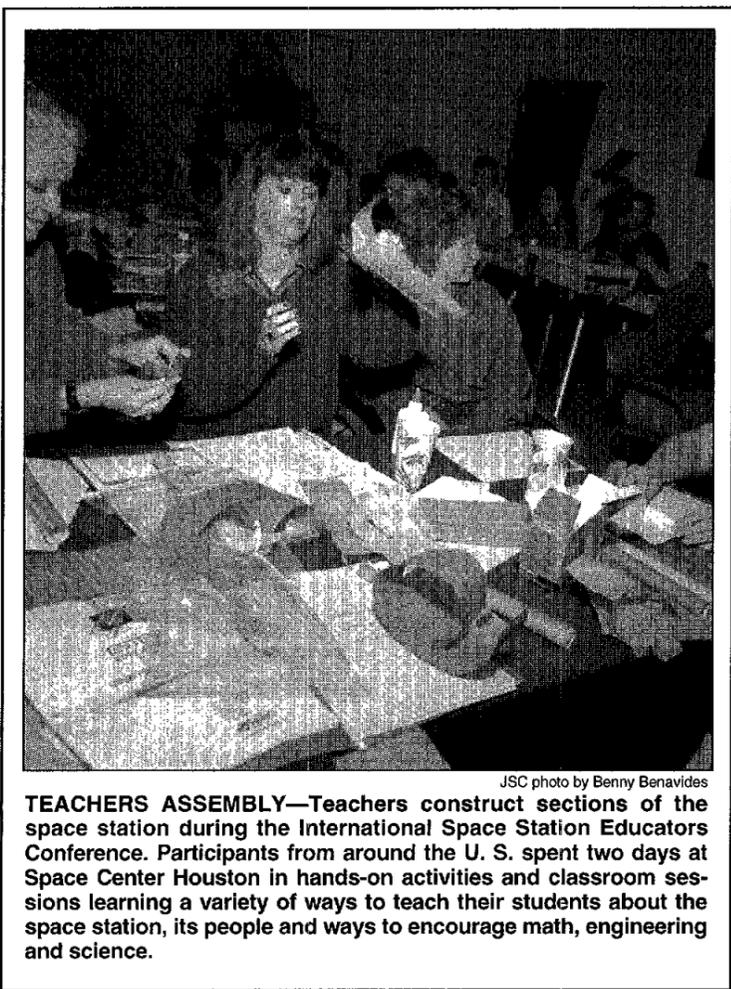
Criteria used for selections include the applicability of the chosen area of study and its effectiveness in contributing to the achievement of JSC's mission and goals, a brief statement of academic purpose, prior academic courses completed, the written recommendation of the division chief and the level of activity in the employee's office.

Typically, those selected for the program have at least three years of service at JSC which may include co-op time.

While application and acceptance to the graduate school is the responsibility of the applicant, tuition and fees, except travel, will be paid by JSC. Regular service agreement requirements entailing a period of three times the length of the training will apply to the program.

Interested employees should request an application from Kazuko Hall, x33075, and should contact their training coordinator for directorate-specific guidelines.

Completed applications, accompanied by written recommendations from the division chief should be forwarded to Hall in the Human Resources Development Branch no later than March 29.



JSC photo by Benny Benavides

TEACHERS ASSEMBLY—Teachers construct sections of the space station during the International Space Station Educators Conference. Participants from around the U. S. spent two days at Space Center Houston in hands-on activities and classroom sessions learning a variety of ways to teach their students about the space station, its people and ways to encourage math, engineering and science.

PMA luncheon series continues

The Houston Chapter of the Performance Management Association will conduct its fourth in a series of luncheon meetings on the implementation of Earned Value Management Systems at JSC at 11:15 a.m. Feb. 23 at the Ramada Inn on NASA Road 1.

Engineering Director Leonard

Nicholson, Space Station Program Deputy Director Doug Cooke, Rich Lyons of Lockheed-Martin and Jay Evers of Unisys will discuss the NASA and Contractor Perspective.

Reservations are due Feb. 20. For more information, contact Susan Widmer at x34299 or email to Swidmer@gp905.jsc.nasa.gov

Quality conference to focus on contractors

The American Society for Quality Control will host a two-day conference on Quality in the Space and Defense Industries March 4-5 at the South Shore Harbour Resort and Conference Center.

The focus of this year's conference is "Rapid Change—On The Brink of the 21st Century." Private organizations will learn new ways to

do business with NASA and the Department of Defense. A special added feature is a look at the joint exploration effort between NASA and the Russian Space Agency.

Day one of the conference will featured speakers including JSC's Safety, Reliability and Quality Assurance Director Charlie Harlan, SR&QA's Deputy Director Gary

Johnson and Frederick Gregory, associate administrator at NASA Headquarters. Day two will concentrate on "Audits and Audit Process," featuring perspectives in the way oversight of contracts is changing.

Civil servants may contact Glen Van Zandt at x33069 for registration information. Others can contact Larry Shaw at x32173.

Careers plus+ presentations set for Wednesday, Friday in Teague

(Continued from Page 1)

educational outreach program run by the Public Affairs Office. Employees are responsible for locating teaching positions and submitting proposals outlining teaching arrangements, and may negotiate additional pay from the school where they plan to teach, but only if it is a state supported school or institution. The Human Resources Office will provide information to help employees locate opportunities; line management and Human Resources must approve all teaching arrangements and work schedules. Ideally, employees will have full-time teaching positions at the end of the

two years when they stop working for JSC.

Detailed information will be presented in the Bldg. 30 Auditorium at 2 p.m. Wednesday, 9 a.m. Friday, and 2 p.m. Feb. 28.

Handouts from these briefings will also be posted on the Human Resources Office Home Page, which can be accessed on the following Internet address:

<http://hro.jsc.nasa.gov/hro/>

Employees with specific questions involving personal retirement options should call or visit Employee Services in Bldg. 45, Rm. 140, x32681. The staff can provide detailed retirement calculations and individual counseling.

Space News Roundup

The Roundup is an official publication of the National Aeronautics and Space Administration, Lyndon B. Johnson Space Center, Houston, Texas, and is published every Friday by the Public Affairs Office for all space center employees.

The Roundup office is located in Bldg. 2, Rm. 181. The mail code is AP2. The main Roundup telephone number is x38648 and the fax number is x45165.

Electronic mail messages should be sent to the editor, khumphri@gp301.jsc.nasa.gov or the associate editor, kschmidt@gp301.jsc.nasa.gov.

Editor Kelly Humphries
Managing Editor Karen Schmidt

Life science, space medicine conference set for March

The benefits of medical research conducted in space will come down to Earth during a three-day conference hosted by NASA and the American Institute of Astronautics and Aeronautics set for next month in Houston.

JSC Director George Abbey will welcome conference attendees to the Life Science and Space Medicine Conference and Exhibition being held March 5-7 at the Sheraton AstroDome Hotel.

The focus of this year's conference is "From Space Medicine to Business Opportunities," and will feature a variety of space experts.

Featured speakers include Texas Gov. George Bush; NASA Administrator Daniel S. Goldin; Harry Holloway, associate administrator of Life and Microgravity Sciences and Applications; and Dr. Carolyn Huntoon, special assistant for NASA's Biomedical Research Institute. In addition, former Astronaut Norm Thagard will contrast the U. S. and Russian space programs and Dr. Michael DeBaKey will discuss Earth benefits from space.

Space professionals from the European, Japanese, Canadian and Russian Space Agencies along with

Department of Defense, NASA and the National Institutes of Health will come together to present developments in life science and space medicine as well as current programs and initiatives. A dual program provides a forum for senior industry and government leaders to address developments in both fields.

The conference focuses on several keynote and panel sessions including: cardiovascular physiology; neuroscience and exercise physiology; application of the physical sciences to life science issues; fundamental biology, spacecraft technology for terrestrial applications; technology entrepreneurship; medical issues and consequences of human exploration of space; opportunities for research on the International Space Station; telemedicine and telemedicine; human factor engineering; technology commercialization; and international cooperation.

Civil servants may register to attend the conference by calling Glen Van Zandt at x33069. Others interested in attending the conference may call the AIAA at 1-800-NEW-AIAA for program details and registration forms.

JSC golf league accepting new members

The JSC Golf Association is now accepting applications for membership for the 1996 gold season.

The club conducts competitive scratch and handicap tournaments for golfers. Competition is based on USGA rules and handicaps are based on tournament scores.

Tournaments are scheduled about every two to three weeks at various courses around Houston.

Membership is open to both JSC civil servants and contractor employees. For entry forms and more information call Mario Ramirez at x48172.

New media center now open

The Media Resource Center, which moved to Bldg. 423, is now open. The center combines the former Still Photo Library and the Film/Video Distribution Library.

The MRC provides a centralized location for images and video and 16mm film products. This collection covers NASA's programs and achievements including activities from the Mercury Program through the current shuttle mission.

Selected images are accessible via the Internet including press release and Earth observation images. The URL address is

<http://images.jsc.nasa.gov/html/home.htm>

The MRC is open from 8 a.m.-5 p.m. Monday-Thursday and from 8 a.m.-5 p.m. Fridays for news media only. The MRC can be reached at x34231; by fax at x32848; or by mail code AP42.

Payloads expand science

(Continued from Page 1)

power and ways to study Earth's upper atmosphere. *Columbia's* crew also will work with the United States Microgravity Payload, which continues efforts to develop new materials and processes that could lead to a new generation of computers, electronics and metals.

"The science teams are really eagerly anticipating the tether flowing some current," said Mission Manager Robert McBrayer, who will oversee science operations from the Payload Operations Control Center at Marshall Space Flight Center.

Commander Andy Allen, Pilot Scott Horowitz, Mission Specialists Jeff Hoffman, Maurizio Cheli, Claude Nicollier and Franklin Chang-Diaz, Payload Specialist Umberto Guidoni

will leave for KSC on Monday to make their final preparations for the 14-day mission. Astronauts Cheli and Nicollier are both from the European Space Agency, and Guidoni is with the Italian Space Agency (ASI).

The STS-75 countdown clock will begin ticking Monday, aiming at a 2:18 p.m. CST Thursday launch from KSC's Launch Pad 39B.

TSS-1R will be aimed at understanding the possibilities for putting tether technology to work in space for a variety of applications. The third flight of USMP continues a series of missions aimed at understanding the basic properties of materials in order to produce better semiconductors for complex computers and other high-tech electronics.